

South Dayton Dump and Landfill

Background

The South Dayton Dump and Landfill is a former disposal area for industrial and municipal waste. The site is approximately 80 acres and includes a 15-acre pond, as well as property now occupied by an operating asphalt plant and other businesses. Open burning, landfilling and storage of hazardous waste throughout its half-century operation has resulted in contamination of soil and portions of the ground water aquifer underlying the site, potentially threatening the adjacent Great Miami River. Soil contains metals that include lead, copper, mercury and other chemicals. Groundwater contamination is mainly organic chemicals such as tetrachloroethylene, trichloroethylene (TCE), vinyl chloride, and benzene. In 2006 the Agency and the potentially responsible parties (PRPs) signed an agreement for EPA to oversee the PRPs investigate the nature and extent of contamination, determine risks posed by the site to human health and the environment, and develop cleanup options.

Site Updates

July 2016

In June 2016, EPA and several PRPs entered into a new Administrative Settlement Agreement and Order on Consent, under which the PRPs will collect additional samples of soil, groundwater, and sediment to characterize the site, understand the risks to human health and the environment, and develop remedial alternatives to address site risks. Sample collection is expected to begin in fall 2016.

Based on sampling of groundwater, soil gas, sub-slab air, and indoor air in 2012, EPA documented a completed exposure pathway for vapor intrusion at the SDDL Site. Vapor intrusion occurs when chemicals in landfill materials and ground water give off gases that can rise up through the soil and seep into buildings through foundations. [What You Should Know About Vapor Intrusion \(PDF\)](#) (2pp, 84K). In order to reduce the sub-slab and indoor levels of TCE and methane, EPA issued an Action Memo in October, 2012, that required the PRPs to install sub-slab depressurization systems at several on-site buildings. These systems, similar to radon mitigation systems, have been installed in several buildings along Dryden Road and are drawing TCE, methane and other vapors out of the soil under the buildings and vent them outside.

As of summer 2016, most of the buildings are in compliance with indoor air and sub-slab vapor requirements, but additional modifications were made to the depressurization systems of a few buildings in early 2016. EPA will review the sampling data from these buildings to determine if they are now in compliance.

News Releases

Fact Sheets

- [ATSDR - Trichloroethylene \(PDF\)](#) (2pp, 32K)

- [What You Should Know About Vapor Intrusion \(PDF\)](#) (2pp, 84K)
- [More Vapor Sampling Planned Around Landfill Site \(PDF\)](#) (2pp, 110K) December 2011
- [National Priorities List \(NPL\) Fact sheet for South Dayton Dump and Landfill](#) September 2004

Technical Documents

- [Final Work Plan for Operable Unit One \(OU1\) Groundwater and Data Gap Investigation – Phase 1A \(PDF\)](#) May, 2013
- [Action Memorandum \(redacted\)](#), October, 2012
- [South Dayton Dump and Landfill Vapor Intrusion Study](#) (125pp, 14.68MB) November 2011
- [Community Involvement Plan, August 2008 \(PDF\)](#) (14pp, 438K)
- [Agency for Toxic Substances and Disease Registry Public Health Assessment for South Dayton Dump and Landfill \(PDF\)](#) (66pp., 2.2 MB) [EXIT Disclaimer](#) 2008
- [Topographical survey of the entire site \(PDF\)](#) (16pp, 500K) May 2008
- [Test pit and test trench investigation \(PDF\)](#) (17pp, 327K) May 2008
- [Ground water sampling and analysis \(PDF\)](#) (12pp, 1.3MB) May 2008
- [Leachate seep investigation \(PDF\)](#) (6pp, 4.5MB) May 2008
- [Landfill gas/soil vapor investigation \(PDF\)](#) (10pp, 529K) July 2008

Legal Documents

- [Administrative Settlement Agreement and Order on Consent](#), April, 2013
- [Unilateral Administrative Order](#), March, 2013
- [Administrative Settlement Agreement and Order on Consent](#), August, 2006

Comment [PL1]: Remove this one and replace it with the 2016 AOC

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